BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to cross roads and drains near Kalpatharu apartments and Srinidhi badavane opp to tatanagar in ward no. 8, kodigehalli sub-division**

Estimate Cost: 2000000.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. Page No. 138 / Item No. 19.1/ PWD SR 2014-15								
	for desilting of drains								
	Road opp. Union bank ATM	Cum	1	205.00	0.50	0.50	51.25		
	cross road-1	Cum	1	223.00	0.50	0.50	55.75		
	for road formation								
	Road opp. Union bank ATM	Cum	1	205.00	7.50	0.30	461.25		
	cross road-1	Cum	1	223.00	7.25	0.30	485.03		
	for drain - opp union bank atm	Cum	1	205.00	0.60	0.60	73.80		
	cross road-1	Cum	1	223.00	0.60	0.60	80.28		
	culverts across cross roads	Cum	1	7.00	2.20	1.20	18.48		
							1225.84	75.60	92673.00
	Basic Rate	70.00							
	Area Weightage @8%	5.60							
	Total	75.60							
2	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete - 10.0 cms thick (P.No.28, I.No.5.31.1 of PW,P&IWTD SR 2014-15.)								
	Road opp. Union bank ATM	sqm	1	205.00	1.65		338.25		
	cross road-1	sqm	1	223.00	1.65		367.95		
							706.20	704.16	497278
	Basic Rate Rs.	652.00							
	Add 8% A.W Rs.	52.16							
	Total Rate Rs.	704.16							
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. No. 12/ Item No. 4.3/ PWD SR 2014-15								
	culverts across cross roads	Cum	1	7.00	2.20	0.15	2.31		
							2.31	4847.04	11197.00
	Basic Rate	4488.00							
	Area Weightage @8%	359.04							
	Total	4847.04							
4	KSRB 5.4-3: Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23 / Item No. 5.12 / PWD SR 2014-15								
	culverts across cross roads	Cum	2	7.00	0.60	0.90	7.56		
							7.56	4773.60	36088.00
	Basic Rate	4420.00							
	Area Weightage @ 8%	353.60							
	Total	4773.60							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
5	KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. 109 / Item No. 15.4 / PWD SR 2014-15								
	culverts across cross roads	Sqm	4	7.00		0.90	12.60		
							12.60	92.88	1170.00
	Basic Rate	86.00							
	Area Weightage @ 8%	6.88							
	Total	92.88							
6	KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. No. 12/ Item No. 4.6/ PWD SR 2014-15								
	coping	Cum	2	7.00	0.60	0.10	0.84		
	Ramp	Cum	2	7.00	0.60	0.15	1.26		
							2.10	5327.64	11188.00
	Basic Rate	4933.00							
	Area Weightage @ 8%	394.64							
	Total	5327.64							
7	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2014-15								
	deck slab	cum	1	7.00	1.80	0.225	2.83		
							2.83	6065.28	17165.00
	Basic Rate	5616.00							
	Area Weightage @ 8%	449.28							
	Total	6065.28							
8	KSRB 4.9.1: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17 / Item No. 4.46.3 / PWD SR 2014-15								
	For slab @ 70 Kg / Cum	Tonne	0.70	2.83			0.20	79056.00	15661.00
	Basic Rate	73200.00							
	Area Weightage @ 8%	5856.00							
	Total	79056.00							
9	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15 / Item No. 4.31/ PWD SR 2014-15								
	Beneath slab	Sqm	1	7.00	0.90		6.30		
	sides of slab	Sqm	2	7.00		0.225	3.15		
		Sqm	2	1.80		0.225	0.81		
							10.26	292.68	3003.00
	Basic Rate	271.00							
	Area Weightage @ 8%	21.68							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Total	292.68							
10	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications Page No. 154 / Item No. 20.18 PWD SR - 2014-15.								
	Road opp. Union bank ATM	Cum	1	82.00	7.50	0.25	153.75		
	cross road-1	Cum	1	40.00	7.25	0.25	72.50		
							226.25	1438.56	325474.00
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							
	Total	1438.56							
11	KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 P. 157 / I. 21.1 PWDSR 2014-15								
	Road opp. Union bank ATM	Sqm	1	82.00	7.50		615.00		
	cross road-1	Sqm	1	40.00	7.25		290.00		
							905.00	12.20	11045.00
	Basic Rate	11.30							
	Area Weightage @ 8%	0.90							
	Total	12.20							
12	KSRRB M500-6: Providing and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 1.10 Kg/Sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification NO. 502, Page No. 157 / Item No. 21.5 / PWD SR 2014-15								
	Qty vide item no. 11	Sqm	1				905.00		
							905.00	74.52	67441.00
	Basic Rate	69.00							
	Area Weightage @ 8%	5.52							
	Total	74.52							
13	KSRRB 500-1.2 : Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. (P. 157 / I. 21.2 PWDSR 2014-15)								
	balance stretch of road	sqm	1	123.00	7.50		922.50		
	balance stretch of road	sqm	1	183.00	7.25		1326.75		
							2249.25	3.02	6802.00
	Basic Rate	2.80							
	Area Weightage @ 8%	0.22							
	Total	3.02							
14	KSRRB M500-7: Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. (Page No. 157 / Item No. 21.7 / PWD SR 2014-15)								
	Qty vide item No. 19	sqm					2249.25	18.74	42146.00
	Basic Rate	17.35							
	Area Weightage @ 8%	1.39							

Sl. No.	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Total	18.74							
15	KSRRB M500-18: Providing and laying semi dense bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 508 complete in all respects as per specifications. using 100-120 TPH capacity H.M.P with sensor paver grading II (25-30mm) with 5% CRMB-55 grade, No. 160 / Item No. 21.21.2 / PWD SR 2014-15								
	Road opp. Union bank ATM	Cum	1	205.00	7.50	0.025	38.44		
	cross road-1	Cum	1	223.00	7.25	0.025	40.42		
							78.86		
	Consider 10% For Depression Filling						7.89		
							86.74	8702.64	754883.00
	Basic Rate	8058.00							
	Area Weightage @ 8%	644.64							
	Total	8702.64							
16	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)								
			Vide Item No. 1				1164.54	73.57	85675.00
	Average weight of earth 1.28 tonne / kg for 2x1.28x2.00=5.12	5.12							
	Add loading and unloading charges Vide item no.17.1 P.no.130	63.00							
		68.12							
	Area Weightage @ 8%	5.45							
	Total	73.57							
17	Sub Total								1978889.00
18	For Third Part QC inspection Charges @ 1% of Estimate Cost								19789.00
19	Miscellaneous and other Charges	L/S							1322.00
								Total	2000000.00
	(Rs. Twenty Lakhs Only)								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 8

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

Administrative Approval
Accorded For 20.00 lakh Rs
Head of A/C P3089
CER NO : 08 Dt: 19.08.15

TA CE (YNK)

Technical Sanction
Accorded For 20.00 lakh Rs
Head of A/C P3089
CER NO : 07 Dt: 19.08.15

TA CE (YNK)